

## 8 | Software

Describe your understanding of existing Georgia DOT software, including at a minimum Navigator and WebEOC.

### Highlights

GDOT utilizes a number of software packages which are relevant to this project including NaviGator, WebEOC, GAMS and others. AECOM staff dedicated to this project has a detailed understanding of these software packages through their involvement in the development, training, deployment and operations of them. We will utilize our knowledge of these software packages to make certain our project staff are properly trained to use them effectively on the RAM program.

GDOT uses several software packages in the daily management of freeway operations, incident management and asset management. AECOM has gained experience with each of these packages through our various support contracts with GDOT and some of our team members used these software packages in their GDOT careers prior to retirement. Below is a brief description of each of the software packages relevant to this project. On the following page, we have provided a table further summarizing the users of each software package and the relevance to this project.

**Navigator** is an Advanced Transportation Management (ATMS) software utilized by GDOT and local agencies for traffic management on the roadways throughout the State of Georgia. NaviGator has extensive capabilities for managing field devices, providing logging and management of incidents and other events, and the capability to implement response plans in response to numerous incident scenarios.

**WebEOC** is a web-based information management system that provides a single access point for the collection and dissemination of emergency or event-related information. WebEOC provides real-time information used by GDOT, GEMA and other EMAs during the planning, mitigation, response and recovery phases of any emergency. GDOT is also ramping up utilization of WebEOC for logging and tracking of construction and maintenance events statewide.

**Georgia Asset Management System (GAMS)** is the Maintenance Management System (MMS) utilized by the GDOT State Maintenance and District Offices for the purposes of asset management. Capabilities of GAMS include maintenance management for recording activities of GDOT and contractor staff through Daily Work Reports (DWRs); inventory management to track material stockpiles and various items utilized in the day-to-day maintenance of roads and bridges; and fleet

### AECOM Experience with Relevant GDOT Software

- Brian Purvis, our Program Manager, has experience with NaviGator software through his prior experience managing staff at the Macon TCC.
- Thomas Mims, our Training Manager, was on the team responsible for the deployment of GAMS. He has extensive experience with GAMS software having served as a trainer for the GDOT District Offices.
- Thomas Mims and Emanuel Jackson, our Contract Manager, both have experience utilizing WebEOC in the management of emergency events.

management which allows tracking and management of GDOT's almost 8,000 pieces of ride vehicles, off-road equipment and small equipment.

**511.org** is a website used primarily by the general public to obtain information on statewide travel conditions. The public has access to speed data maps, incident information, construction information and some GDOT field devices (DMS/CCTV).

**SouthernLinc** is the vendor for the radio system utilized by GDOT maintenance forces and will be the primary source of dispatch for the RAM Operators. SouthernLinc also provides software for real-time tracking of vehicle location and reporting of vehicle diagnostic information.

The table below further summarizes AECOM's knowledge of GDOT software relevant to this project.

Software	Functionality Related to this Project	Primary Users	Relevance to this Project
<b>NaviGator</b>	NaviGator is the ATMS software GDOT and local agencies use for traffic management. Its primary functionality includes: <ul style="list-style-type: none"> <li>• Management and control of GDOT Field Devices (CCTV, DMS, etc.)</li> <li>• Logging and management of events including crashes, lane closures etc.</li> <li>• Development and implementation of incident response plans</li> </ul>	<ul style="list-style-type: none"> <li>• TMC Operators</li> <li>• RAM Dispatchers</li> <li>• RAM Operators</li> </ul>	RAM Dispatchers will utilize NaviGator software to log incident information and to manage ITS devices within their coverage zones.
<b>WebEOC</b>	WebEOC is a message tracking and event management software package utilized by emergency management agencies in Georgia to provide seamless sharing of information during emergency events. GDOT is also utilizing WebEOC for construction and maintenance events tracking.	<ul style="list-style-type: none"> <li>• GDOT</li> <li>• GEMA</li> <li>• Local EMAs</li> <li>• RAM Dispatchers</li> </ul>	RAM Dispatchers, in conjunction with GDOT Maintenance staff, will utilize WebEOC during emergency events to exchange information with GEMA and local EMAs. The WebEOC mobile application could be utilized by RAM Operators to log maintenance and incident information.
<b>GAMS/Agile Assets</b>	GAMS is GDOT's Asset Management software which is used to document and track activities of GDOT maintenance and contractor staff, manage inventories and manage fleets. It also has the capability to track all outstanding maintenance work activities and generate work orders for maintenance activities.	<ul style="list-style-type: none"> <li>• State Maintenance Office</li> <li>• District Maintenance Office</li> <li>• Area Offices</li> <li>• Routine Maintenance Forman</li> <li>• RAM Staff</li> </ul>	RAM staff can utilize GAMS to review status of outstanding maintenance activities and enter new maintenance deficiencies.
<b>511.org</b>	511.org is GDOT's public interface to traveler information.	General Public	RAM Operators can utilize 511.org as a supplement to NaviGator for viewing traveler information.

Software	Functionality Related to this Project	Primary Users	Relevance to this Project
<b>SouthernLinc</b>	SouthernLinc's suite of software provides tools for GPS location tracking of vehicles and exception-based reporting of vehicle operation.	<ul style="list-style-type: none"> <li>• GDOT</li> <li>• RAM Operators</li> <li>• RAM Dispatchers</li> <li>• RAM Managers</li> </ul>	AECOM staff, including RAM Dispatchers and management staff, can utilize SouthernLinc for real time location tracking of RAM Operators and for fleet management.
<b>INRIX/WAZE</b>	Numerous crowd sourced software packages provide real-time traffic and roadway information. GDOT currently utilizes information from INRIX to supplement NaviGator field data collection.	<ul style="list-style-type: none"> <li>• GDOT</li> <li>• RAM Dispatchers</li> </ul>	RAM Dispatchers can monitor software such as INRIX and WAZE for early detection of incidents and congestion.